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l1 and increas\$ near10 run length	14

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File: DWPI

Jul 3, 2002

DERWENT-ACC-NO: 2003-001522

DERWENT-WEEK: 200318

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TITLE: Printing system involves exposing imaging element to infrared light image-wise, developing it on print cylinder, and providing printing run length of press when reducing diameter of hydrophobic polymer particles

INVENTOR: KOKKELENBERG, D; VAN AERT, H ; VERMEERSCH, J

PATENT-ASSIGNEE: AGFA-GEVAERT (GEVA), AGFA-GEVAERT AG (GEVA)

PRIORITY-DATA: 2000EP-0000003 (December 20, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1219416 A1	July 3, 2002	E	035	B41C001/10
JP 2002251005 A	September 6, 2002		080	G03F007/004

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 1219416A1	November 23, 2001	2001EP-0000657	
JP2002251005A	December 19, 2001	2001JP-0385347	

INT-CL (IPC): B41 C 1/055; B41 C 1/10; B41 N 1/14; G03 F 7/00; G03 F 7/004ABSTRACTED-PUB-NO: EP 1219416A

BASIC-ABSTRACT:

NOVELTY - A printing system containing a lithographic printing plate performs exposing an imaging element to infrared light image-wise, developing by mounting it on a print cylinder of a printing press and applying an aqueous dampening liquid and/or ink to the imaging element, and providing a printing run length of the press, when reducing average diameter of the hydrophobic polymer particles to greater than 25%.

DETAILED DESCRIPTION - A printing system containing a lithographic printing plate comprises the steps of:

- (a) exposing a heat sensitive imaging element to infrared light image-wise;
- (b) developing by mounting it on a print cylinder of a printing press and applying an aqueous dampening liquid and/or ink to the imaging element while rotating the print cylinder; and
- (c) providing a printing run length of the press, increased with a factor of at least 5, when reducing the average particle size diameter of the hydrophobic polymer particles to more than 25%.

The imaging element is optionally present on the press before starting the image-wise exposure. The element comprises an image-forming layer on a lithographic base with a

hydrophilic surface. The image-forming layer includes hydrophobic thermoplastic polymer particles and a hydrophilic polymer binder, and optionally an infrared absorbing compound. The hydrophobic polymer particles contain more than 0.1 weight% (wt.%) of nitrogen and have an average particle size diameter of 0.015-0.150 μ m. INDEPENDENT CLAIMS are included for the following:

- (1) Lithographic printing plate suitable for use in a printing system;
- (2) Use of hydrophobic polymer particles containing more than 0.1 wt.% of nitrogen in a coating of a heat sensitive imaging element of a lithographic printing plate.

USE - For printing system.

ADVANTAGE - The printing system has higher run length, broader lithographic latitude and better scratch resistance. Chemical resistance of the printing plate material is improved. Manufacture of the printing plate is performed without producing environmental pollution. The exposed image areas have required solvent resistance. Cleaning-up of the unexposed areas is performed quickly.

ABSTRACTED-PUB-NO: EP 1219416A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: A13 A14 A89 G05 P74 P75 P84 S06
CPI-CODES: A12-L02B1; A12-L05A; A12-W07B; G05-A01; G06-A06; G06-D05; G06-F03C;
G06-F08A;
EPI-CODES: S06-C02A; S06-C03;